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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/647,019

DATE: 07/05/2001  
TIME: 16:23:00

Input Set : A:\12525-407001.TXT  
Output Set: N:\CRF3\07032001\I647019.raw

4 <110> APPLICANT: Harvey, Richard P.  
5 Palmer, Stephen J.  
6 Rosenthal, Nadia A.  
7 Musaro, Antonio  
9 <120> TITLE OF INVENTION: NOVEL MOLECULES EXPRESSED DURING MUSCLE  
10 DEVELOPMENT AND GENETIC SEQUENCES ENCODING THE SAME  
13 <130> FILE REFERENCE: 12525-407001  
15 <140> CURRENT APPLICATION NUMBER: 09/647,019  
C--> 16 <141> CURRENT FILING DATE: 2001-06-13  
18 <150> PRIOR APPLICATION NUMBER: PCT/AU99/00220  
19 <151> PRIOR FILING DATE: 1999-03-26  
21 <150> PRIOR APPLICATION NUMBER: AU PP2634/98  
22 <151> PRIOR FILING DATE: 1998-03-27  
24 <160> NUMBER OF SEQ ID NOS: 20  
26 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
28 <210> SEQ ID NO: 1  
29 <211> LENGTH: 778  
30 <212> TYPE: DNA  
31 <213> ORGANISM: Mus musculus  
33 <220> FEATURE:  
34 <221> NAME/KEY: CDS  
35 <222> LOCATION: (199)...(453)  
37 <400> SEQUENCE: 1  
38 gctctcagga ctggagagag acagagcact ccagcttattt cagccacatg aaaagcactg 60  
39 gaattgagat ccccgctcag aggacaccgg gagttcccttc tatccctgtaa agcgcttttt 120  
40 gtgttttgc acctggccgc ctgggactgt cctcaggcag taaaccaatc cagagagcag 180  
41 ggctaagacc ttgtgaat atg tcg aag cag cca att tcc aac gtc aga gcc 231  
42 Met Ser Lys Gln Pro Ile Ser Asn Val Arg Ala  
43 1 5 10  
45 atc cag gcg aat atc aat att cca atg gga gcc ttt cgt ccg gga gct 279  
46 Ile Gln Ala Asn Ile Asn Ile Pro Met Gly Ala Phe Arg Pro Gly Ala  
47 15 20 25  
49 ggg cag cct ccc aga agg aaa gag agt act cct gaa act gag gag gga 327  
50 Gly Gln Pro Pro Arg Arg Lys Glu Ser Thr Pro Glu Thr Glu Glu Gly  
51 30 35 40  
53 gct cct acc acc tca gag gaa aag aag cca att cct gga atg aag aaa 375  
54 Ala Pro Thr Thr Ser Glu Glu Lys Pro Ile Pro Gly Met Lys Lys  
55 45 50 55  
57 ttt cca gga cct gtt gtc aac ttg tct gag atc caa aat gtt aaa agt 423  
58 Phe Pro Gly Pro Val Val Asn Leu Ser Glu Ile Gln Asn Val Lys Ser  
59 60 65 70 75  
61 gaa ctg aaa ttt gtc ccc aaa ggt gaa cag tagtcgaaag gacacaaaag 473  
62 Glu Leu Lys Phe Val Pro Lys Gly Glu Gln  
63 80 85  
65 ttcacattgg atgcttagaa tcaggagatg catttcgttg acgtgtttt ccaagggaga 533  
66 aaaaaacaatg gggtgaaata aacaacttcc tgaacatttt atacatttg atgatgatca 593  
67 caaacctcct gaatgcctaa gactctagca aaaatatcct gtttgatcat ttatattct 653

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68 tcctttact tggttgcatt tctcacttta gctacattt tggcacctg tagagcaaat 713  
69 cagcacacga attacaacc tgggaagtgt gtttgagg agagatgtga ttttatgaa 773  
70 ggggg 778  
72 <210> SEQ ID NO: 2  
73 <211> LENGTH: 85  
74 <212> TYPE: PRT  
75 <213> ORGANISM: Mus musculus  
77 <400> SEQUENCE: 2  
78 Met Ser Lys Gln Pro Ile Ser Asn Val Arg Ala Ile Gln Ala Asn Ile 713  
79 1 5 10 15  
80 Asn Ile Pro Met Gly Ala Phe Arg Pro Gly Ala Gly Gln Pro Pro Arg 773  
81 20 25 30  
82 Arg Lys Glu Ser Thr Pro Glu Thr Glu Glu Gly Ala Pro Thr Thr Ser 778  
83 35 40 45  
84 Glu Glu Lys Lys Pro Ile Pro Gly Met Lys Lys Phe Pro Gly Pro Val 778  
85 50 55 60  
86 Val Asn Leu Ser Glu Ile Gln Asn Val Lys Ser Glu Leu Lys Phe Val 778  
87 65 70 75 80  
88 Pro Lys Gly Glu Gln  
89 85  
91 <210> SEQ ID NO: 3  
92 <211> LENGTH: 887  
93 <212> TYPE: DNA  
94 <213> ORGANISM: Homo sapiens  
96 <220> FEATURE:  
97 <221> NAME/KEY: CDS  
98 <222> LOCATION: (185)....(448)  
100 <400> SEQUENCE: 3  
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102 agatcgccgc tcagaggaca cccggcgc cttccacctt ccaaggagct ttgtattctt 120  
103 gcatctggct gcctggact tcccttaggc agtaaacaaa tacataaagc aggataaga 180  
104 ctgc atg aat atg tcg aaa cag cca gtt tcc aat gtt aga gcc atc cag 229  
105 Met Asn Met Ser Lys Gln Pro Val Ser Asn Val Arg Ala Ile Gln 229  
106 1 5 10 15  
108 gca aat atc aat att cca atg gga gcc ttt cgg cca gga gca ggt caa 277  
109 Ala Asn Ile Asn Ile Pro Met Gly Ala Phe Arg Pro Gly Ala Gly Gln 277  
110 20 25 30  
112 ccc ccc aga aga aaa gaa tgt act cct gaa gtg gag gag ggt gtt cct 325  
113 Pro Pro Arg Arg Lys Glu Cys Thr Pro Glu Val Glu Glu Val Pro 325  
114 35 40 45  
116 ccc acc tcg gat gag gag aag aag cca att cca gga gcg aag aaa ctt 373  
117 Pro Thr Ser Asp Glu Glu Lys Lys Pro Ile Pro Gly Ala Lys Lys Leu 373  
118 50 55 60  
120 cca gga cct gca gtc aat cta tcg gaa atc cag aat att aaa agt gaa 421  
121 Pro Gly Pro Ala Val Asn Leu Ser Glu Ile Gln Asn Ile Lys Ser Glu 421  
122 65 70 75  
124 cta aaa tat gtc ccc aaa gct gaa cag tagtaggaag aaaaaaggat 468  
125 Leu Lys Tyr Val Pro Lys Ala Glu Gln 468  
126 80 85

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128 tgatgtgaag aaataaagag gcagaagatg gattcaatag ctcactaaaa ttttatata 528  
 129 ttgtatgtat attgtgaacc tcctgaatgc ctgagactct agcagaaatg gcctgtttgt 588  
 130 acatttatat ctcttccttc tagttggctg tatttcttac tttatcttca tttttggcac 648  
 131 ctcacagaac aaattagccc ataaattcaa cacctggagg gtgtggttt gaggagggat 708  
 132 atgattttat ggagaatgtat atggcaatgt gcctaacgt tttgatgaaa agttcccaa 768  
 133 gctacttcct acagtatttt ggtcaatatt tggaatgcgt ttttagttctt caccctttaa 828  
 134 attatgtcac taaactttgt atgagttcaa ataaatattt gactaaatgt aaaatgtga 887  
 136 <210> SEQ ID NO: 4  
 137 <211> LENGTH: 88  
 138 <212> TYPE: PRT  
 139 <213> ORGANISM: Homo sapiens  
 141 <400> SEQUENCE: 4  
 142 Met Asn Met Ser Lys Gln Pro Val Ser Asn Val Arg Ala Ile Gln Ala  
 143 1 5 10 15  
 144 Asn Ile Asn Ile Pro Met Gly Ala Phe Arg Pro Gly Ala Gly Gln Pro  
 145 20 25 30  
 146 Pro Arg Arg Lys Glu Cys Thr Pro Glu Val Glu Gly Val Pro Pro  
 147 35 40 45  
 148 Thr Ser Asp Glu Glu Lys Lys Pro Ile Pro Gly Ala Lys Lys Leu Pro  
 149 50 55 60  
 150 Gly Pro Ala Val Asn Leu Ser Glu Ile Gln Asn Ile Lys Ser Glu Leu  
 151 65 70 75 80  
 152 Lys Tyr Val Pro Lys Ala Glu Gln  
 153 85  
 155 <210> SEQ ID NO: 5  
 156 <211> LENGTH: 75  
 157 <212> TYPE: PRT  
 158 <213> ORGANISM: Xenopus laevis  
 160 <400> SEQUENCE: 5  
 161 Met Ser Lys Gln Pro Ala Ser Asn Ile Arg Ser Ile Gln Ala Asn Ile  
 162 1 5 10 15  
 163 Asn Ile Pro Met Gly Ala Phe Arg Pro Gly Ala Gly Gln Pro Pro Lys  
 164 20 25 30  
 165 Arg Lys Glu Phe Ser Thr Glu Glu Glu Gln His Val Pro Thr Pro Glu  
 166 35 40 45  
 167 Ser Glu Glu Lys Ser Glu Glu Lys Lys Pro Ile Pro Gly Ala Val Lys  
 168 50 55 60  
 169 Leu Pro Gly Pro Ala Phe Asn Leu Ser Glu Thr  
 170 65 70 75  
 172 <210> SEQ ID NO: 6  
 173 <211> LENGTH: 172  
 174 <212> TYPE: DNA  
 175 <213> ORGANISM: Homo sapiens  
 177 <400> SEQUENCE: 6  
 178 ggttctcaat accgggagag gcacagagct attcagcca catgaaaagc atcggattg 60  
 179 agatcgcgac tcagaggaca cccggcgccc cttccacctt ccaaggagct ttgtattctt 120  
 180 gcatctggct gcctggact tcccttaggc agtaaacaaa tacataaagc ag 172  
 182 <210> SEQ ID NO: 7  
 183 <211> LENGTH: 57

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184 <212> TYPE: DNA  
185 <213> ORGANISM: Homo sapiens  
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188 ggataagact gcatgaatat gtcgaaacag ccagttcca atgttagagc catccag 57  
190 <210> SEQ ID NO: 8  
191 <211> LENGTH: 87  
192 <212> TYPE: DNA  
193 <213> ORGANISM: Homo sapiens  
195 <400> SEQUENCE: 8  
196 gcaaatatca atattccat gggagcctt cggccaggag caggtcaacc ccccaagaaga 60  
197 aaagaatgtt ctcctgaagt ggaggag 87  
199 <210> SEQ ID NO: 9  
200 <211> LENGTH: 149  
201 <212> TYPE: DNA  
202 <213> ORGANISM: Homo sapiens  
204 <400> SEQUENCE: 9  
205 ggtgttcctc ccaccccgaa tgaggagaag aagccaattc caggagcgaa gaaacttcca 60  
206 ggacctgcag tcaatctatc gaaatccag aatattaaaa gtgaactaaa atatgtcccc 120  
207 aaagctgaac agtagtagga agaaaaaaag 149  
209 <210> SEQ ID NO: 10  
210 <211> LENGTH: 422  
211 <212> TYPE: DNA  
212 <213> ORGANISM: Homo sapiens  
214 <400> SEQUENCE: 10  
215 gattgatgtg aagaaaataaa gaggcagaag atggattcaa tagctcacta aaattttata 60  
216 tatttgtatg atgattgtgaa acctcctgaa tgcctgagac tctagcagaa atggcctgtt 120  
217 tgtacattta tatctcttcc ttctagttgg ctgtatttct tactttatct tcattttgg 180  
218 cacccacag aacaatttag cccataaatt caacacctgg agggtgtgg tttgaggagg 240  
219 gatatgattt tatggagaat gatatggcaa tgtgcctaac gattttgatg aaaagttcc 300  
220 caagctactt cctacagtat ttgggtcaat atttggatg cgtttttagtt cttcacctt 360  
221 taaattatgt cactaaactt tgtatgagtt caaataaaata tttgactaaa tgtaaaatgt 420  
222 ga 422  
224 <210> SEQ ID NO: 11  
225 <211> LENGTH: 40  
226 <212> TYPE: PRT  
227 <213> ORGANISM: Patinopecten sp.  
229 <400> SEQUENCE: 11  
230 Ser Val Ile Gln Arg Asn Ile Arg Lys Trp Val Leu Arg Leu Asn Trp  
231 1 5 10 15  
232 Gln Trp Trp Lys Leu Tyr Ser Lys Val Lys Pro Leu Leu Ser Ile Ala  
233 20 25 30  
234 Arg Gln Glu Glu Glu Met Lys Glu  
235 35 40  
237 <210> SEQ ID NO: 12  
238 <211> LENGTH: 40  
239 <212> TYPE: PRT  
240 <213> ORGANISM: Rattus norvegicus  
242 <400> SEQUENCE: 12  
243 Leu Val Ile Gln Trp Asn Ile Arg Ala Phe Met Gly Val Lys Asn Trp

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244 1 5 10 15  
 245 Pro Trp Met Lys Leu Tyr Phe Lys Ile Lys Pro Leu Leu Lys Ser Ala  
 246 20 25 30  
 247 Glu Thr Glu Lys Glu Met Ala Asn  
 248 35 40  
 250 <210> SEQ ID NO: 13  
 251 <211> LENGTH: 40  
 252 <212> TYPE: PRT  
 253 <213> ORGANISM: Rattus norvegicus  
 255 <400> SEQUENCE: 13  
 256 Phe Cys Ile Gln Tyr Asn Ile Arg Ala Phe Met Asn Val Lys His Trp  
 257 1 5 10 15  
 258 Pro Trp Met Lys Leu Phe Phe Lys Ile Lys Pro Leu Leu Lys Ser Ala  
 259 20 25 30  
 260 Glu Thr Glu Lys Glu Met Ala Thr  
 261 35 40  
 263 <210> SEQ ID NO: 14  
 264 <211> LENGTH: 40  
 265 <212> TYPE: PRT  
 266 <213> ORGANISM: Homo sapiens  
 268 <400> SEQUENCE: 14  
 269 Glu Asn Asn Val Met Asn Ile Arg Gln Phe Asn Cys Ser Pro His Pro  
 270 1 5 10 15  
 271 Tyr Trp Leu Pro Asn Phe Met Asp Val Phe Thr Trp Ser Leu Pro Phe  
 272 20 25 30  
 273 Val Gly Glu Lys Arg Val Thr Glu  
 274 35 40  
 276 <210> SEQ ID NO: 15  
 277 <211> LENGTH: 6  
 278 <212> TYPE: PRT  
 279 <213> ORGANISM: Artificial Sequence  
 281 <220> FEATURE:  
 282 <223> OTHER INFORMATION: consensus sequence  
 284 <221> NAME/KEY: VARIANT  
 285 <222> LOCATION: (1)...(6)  
 286 <223> OTHER INFORMATION: Xaa = Any Amino Acid  
 288 <400> SEQUENCE: 15  
 W--> 289 Ile Gln Xaa Xaa Ile Arg  
 290 1 5  
 292 <210> SEQ ID NO: 16  
 293 <211> LENGTH: 42  
 294 <212> TYPE: PRT  
 295 <213> ORGANISM: Homo sapiens  
 297 <400> SEQUENCE: 16  
 298 Ser Glu Glu Asp Gly Phe Asp Gly Ala Thr Ala Ala Ala Arg Lys Glu  
 299 1 5 10 15  
 300 Val Ile Arg Trp Lys Ile Arg Ala Ile Gly Lys Met Ala Arg Val Phe  
 301 20 25 30  
 302 Ser Val Leu Arg Glu Glu Ser Glu Ser Val

**VERIFICATION SUMMARY**  
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L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15